

Claim 5, lines 1-2, delete "any one of the preceding claims",
and insert --claim 1--;

Claim 6, lines 1-2, delete "any one of the preceding claims",
and insert --claim 1--;

Claim 7, lines 1-2, delete "any one of the preceding claims",
and insert --claim 1--;

Claim 8, lines 1-2, delete "any one of the preceding claims",
and insert --claim 1--;

Claim 9, line 1, delete "any one of claims 1-8", and insert
--claim 1--;

Claim 11, line 1, delete "or 10";

Claim 12, line 1, delete "any one of claims 9-11", and insert
--claim 9--;

Claim 13, line 1, delete "any one of claims 9-11", and insert
--claim 9--;

Claim 14, line 3, delete "any one of the preceding claims",
and insert --claim 1--; and

Claim 19, line 1, delete "or 18".

Please add new claims 20-23 as follows:

- 1 ~~20.~~ A flow sensor according to claim 2, characterized in that:
2 to substantially each combination of two cross sections of the
3 blade it applies that

4 $[r_1 \cdot \cos(H_1) \cdot B_1] / [r_2 \cdot \cos(H_2) \cdot B_2] > 1$

5 wherein:

6 r_1 = distance first section relative to the center of the core
7 (m);

8 r_2 = distance second section relative to the center of the
9 core (m);

10 wherein $r_2 > r_1$;

11 H_1 = blade angle first section (°);

12 H_2 = blade angle second section (°);

13 B_1 = Blade width first section (m); and

14 B_2 = Blade width second section (m),

15 wherein to all blade angles of the impeller it applies that they
16 lie in one quadrant and that the blade angle (H) and blade width
17 (B) have a flowing curve over the blade;

18 the impeller comprises two blades which together with the core
19 cover the entire diameter of the relevant cross section of the tube
20 section, the blades preferably being arranged diametrically
21 opposite each other;

22 that the distance between the free end of ~~the or~~ each blade
23 and the inner wall of the tube section is less than 2%, and
24 preferably approximately 1% of the diameter of the tube section;

25 for each blade the blade curve at the leading side is less
26 than 5°, and preferably approximately 0°;

27 to a cross section of each blade it applies that the cross
28 section has the greatest thickness at a distance of about 1/3 of
29 the blade width, measured from the front edge of the blade, the
30 greatest blade thickness being preferably about 10% of the relevant
31 blade width;

32 the core has a frontal surface of no more than approximately
33 10% of the internal cross section of the tube section;

34 the tube section, downstream of the impeller, a ventilating
35 fan is arranged for drawing in air, via the tube section, from the
36 side of the impeller remote from the ventilating fan and through
37 the plane covered by the impeller during a revolution, and for
38 delivering said air outside the tube section;

39 the ventilating fan rotates in a direction opposite to that of
40 the impeller;

41 the distance between the blades of the ventilating fan and the
42 blades of the impeller at least corresponds to the diameter of the
43 tube section;

44 on the side of the impeller, the tube section comprises an
45 outwardly bent inflow edge whose curvature radius is greater than
46 10% of the diameter of the tube section, the impeller being
47 disposed at the level of the inflow edge.

1 ~~14~~ 21. A flow sensor according to claim ~~11~~ ¹³, characterized in that on
2 the side of the impeller, the tube section comprises an outwardly

3 bent inflow edge whose curvature radius is greater than 10% of the
4 diameter of the tube section, the impeller being disposed at a
5 distance from the inflow edge which is at least half the diameter
6 of the tube section.

4
22. A ventilating device, in particular suitable for use for the
2 ventilation of spaces, wherein a flow sensor according to claim 20
3 is included ~~in one of the boundaries of a space to be ventilated,~~
4 wherein switching means are included for regulating, on the basis
5 of the speeds of the impeller registered by the measuring means and
6 an air composition measured within the space, the amount of air to
7 be discharged from the space by the flow sensor.

22
23. A method according to claim 18, characterized in that for each
1 cross section of each blade, a width and blade angle are determined
2 so that to substantially each combination of two cross sections of
3 the blade, it applies that
4

$$[r_1 \cdot \cos(H_1) \cdot B_1] / [r_2 \cdot \cos(H_2) \cdot B_2] > 1$$

6 wherein:

7 r_1 = distance first section relative to the center of the core
8 (m);

9 r_2 = distance second section relative to the center of the
10 core (m);

11 wherein $r_2 > r_1$;